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so that we deal, in it, with a *new square root, cube root, and fifth root, of positive unity*; the latter root being the *product* of the two former, when taken in an *order* assigned, but *not* in the opposite order. From these simple assumptions (A), a long train of consistent calculations opens itself out, for every result of which there is found a corresponding geometrical interpretation, in the theory of two of the celebrated solids of antiquity, alluded to with interest by Plato in the *Timæus*; namely, the Icosaedron, and the Dodecaedron: whereof the *angles* may now be *unequal*. By making $\lambda^4 = 1$, the author obtains other symbolical results, which are interpreted by the Octaedron and the Hexaedron. The Pyramid is, in *this* theory, almost too simple to be interesting: but it is dealt with by the assumption, $\lambda^3 = 1$, the other equations (A) being untouched. As one fundamental result of those equations (A), which may serve as a slight specimen of the rest, it is found that if we make $\mu^2 = \lambda$, we shall have

$$\mu^5 = 1, \mu = \lambda\lambda, \lambda = \mu\mu;$$

so that this *new fifth root* μ has relations of perfect *reciprocity* with the former fifth root λ . But there exist more *general* results, *including* this, and others, on which Sir W. R. H. hopes to be allowed to make a future communication to the Academy: as also on some applications of the principles already stated, or alluded to, which appear to be in some degree interesting.

The following donations were presented:—

1. By Corry Connellan, Esq.:—A copy of Sir Martin A. Shee's portrait of the late Thomas Moore, Esq.

2. By Edward Bewley, M. D.:—An autograph letter of Dr. Charles Lucas, of which the following is a copy:—

“By this time, I may congratulate my worthy, honest friend, first, on his safe arrival with his fair convoy and then, on their kind reception and assured success, in Dublin. I am

just come from the first play I saw since you left the mutilated stage. And had not the capital actor in the great farce of state been there, and commanded, with the journey to London, the King and the Miller, instead of being entertained with Cibber and Dodsley's drama, I had conversed at home with the living dead, rather than have murdered time with the dead living. How completely has Miss Nossiter and you robbed me of the chief, yea, of all the entertainment, this great town could afford me, the Theatre and my friends? All is dead without you. G. is not always able with offered orders to fill his house. And R. can not get groundlings for love or money to occupy his cold, empty benches. It is unfortunate for the town, that he is old and lacks choler; or poor Harlequin had, before now, hanged himself or broke his neck. Well, what a misfortune it has in all senses proved, that I was forced to travel! Whilst I lay confined to my narrow native place, I thought a Doctor of Dublin an Hippocrates, a Fellow of T. C. D. something more than man; G. Faulkner, another Elziver; Stannard and Singleton honest men; Sheridan a Roscius; Bellamy no w——; and your humble servant, then C. L. of O. Q. apothecary, a much greater man, than I now think C. L. of R. and L. M. D.—Now, how are the mighty fallen! All fallen so low in my esteem, that I think few or none of them worth the insignificant notice of—mine insignificant self. See, I prate, as when I ingrossed you by your hospitable fireside! Let me say something serious. The remnant of your family is well. So are all your friends, who for themselves mourn your loss, whilst the exult at your prospects, and see a falling house here unmoved. Atkinson and his worthy wife are well. Br. a villain! He will not quit the business. Adair, wrote letters for you to my house; he has forgot *the* letter, and I could not explane it to him. Convent Garden is on the brink of Damnation; psha! it was always so; I mean the theatre: Nothing less than G. ii, or G. iii, to be, no less actors, in all

Monarch R——'s dramatic list, can bring a house. Hamlet, the second night, scarce payed expences; Shylock, not much better; Hippolitus twice, still less. How hard is the man's fate, whose salvation depends upon pantomimes and burlettos? In short, our Dublin Roscius will hardly get bread as a candle snuffer here. Would you believe it? Sparks and Elmy were the most applauded in the Journey to London. This *entre nous*, damn the french! Whist is the word. In short, Nossiter and you have hurt me, as much as if you had mended mine hearing, where I was to hear nothing but dissonance and discord, or my smelling, when stench alone were to be presented to that sense. And now I talk of stench, I long for once to offend mine eyes, sense of cleanliness and smell, with the sight of Faulkner's nasty newspaper, that I may wade through heaps of lies and non-sense to see your names and hear something of you. How did you travel? How cross the seas? How does the sod agree with you? How is Mrs. Barry? How is Belzy? Have you forgot me? Shew me you have not by writing. Do you all know how I love you? Think of it and let me hear often from you. Do you know that I am very well and hearty? Are not you all glad? Yes; I know you are. I want nothing but to hear of a victorious campaign and see you returning triumphant to your longing friends here. G. was not better received or dismissed to night than you will be. See, my paper is out; so is the poor post-man's hour. Farewell! then, my honest friend. When next you embrace your wife, give her a Blandishment for me, and give Bell not a few. O! happy Proxy! Remember me tenderly to all those, that love you as I do; for they can not be Enemies to him, who with no less pride than truth professes himself Your most affect^{ed} and faithful friend,

“C: LUCAS.

“London, Nov. 9th. 1754.

“Kennedy, Kennedy.”

3. By Francis M. Jennings, Esq.:—A collection of modern personal ornaments collected by himself in the north of Africa, viz.:—A necklace composed of amber and ornamented glass beads, with silver pendants, with patterns in niello; a silver chain connecting two small fibulæ; and a copper armlet. These all resemble things of the same kind found in Ireland.

4. By Thomas Grubb, Esq.:—A photograph of certain plaster casts of ancient crosses in the collection of the Academy, intended to exhibit the application of an improvement in the waxed paper process applicable to the representation of such objects.

5. By William T. Potts, Esq.:—An ancient iron spear-head, of a very peculiar form, found at Lesjo, in the Romsdahl valley, near Christiansund, in the track of Sinclair's expedition to assist the Swedes against the Norwegians.

6. By Dr. Kelly, Mullingar:—An ancient bronze blade, of a very rare form, found in the neighbourhood of Mullingar, similar to a much smaller one in the Academy Museum.

7. By J. F. Rowland, Esq., Drogheda:—Three encaustic tiles, found at Mellifont Abbey.

The Secretary handed in a list of donations of books and pamphlets presented to the Library during the recess.

The thanks of the Academy were voted to the several donors.

The Academy then adjourned to Saturday, 29th November, 1856.